FLORENCE COPPER INC.



1575 W. Hunt Highway, Florence, Arizona 85132 USA

florencecopper.com

July 15, 2021

Ms. Nancy Rumrill U.S. Environmental Protection Agency, Region 9 Drinking Water Protection Services, WTR-3-2 75 Hawthorne Street San Francisco, California 94105

Re: Transmittal of Supplemental Information in Support of Application for Underground Injection Control Permit, Florence Copper Project, Florence, Arizona

Dear Ms. Rumrill:

Pursuant to our telephone conversation on July 8, 2021, Florence Copper Inc. (Florence Copper) herewith transmits supplemental information in support of our application for an Underground Injection Control (UIC) Permit submitted to the U.S. Environmental Protection Agency (USEPA) on October 4, 2019 (Application). This information reflects our understanding of, and response to, questions the USEPA has regarding previously submitted Application materials.

Our stated understanding of the additional information required by the USEPA is described below, followed by our response, which includes references to the attached materials.

Request 1:

The USEPA requested that Florence Copper provide a listing of the 32 POC wells and 16 Supplemental monitoring wells included in the closure cost estimate submitted to USEPA.

Response 1:

The 32 Point of Compliance (POC) wells and 16 supplemental monitoring wells are listed in Table D-7.1 of Exhibit D-7, submitted to USEPA on March 19, 2021. Tables listing the POC wells and supplemental monitoring wells are provided below for the reviewer's convenience.

| POC Wells | | | | | | | | | |
|-----------|------------------|---------------|--|--|--|--|--|--|--|
| Well Name | Existing/Planned | In/Out of AOR | | | | | | | |
| M1-GL | Existing | Inside AOR | | | | | | | |
| M2-GU | Existing | Outside AOR | | | | | | | |
| M3-GL | Existing | Outside AOR | | | | | | | |
| M4-O | Existing | Outside AOR | | | | | | | |
| M6-GU | Existing | Inside AOR | | | | | | | |
| M7-GL | Existing | Inside AOR | | | | | | | |



| POC Wells | | | | | | | | | |
|------------|------------------|---------------|--|--|--|--|--|--|--|
| Well Name | Existing/Planned | In/Out of AOR | | | | | | | |
| M8-O | Existing | Inside AOR | | | | | | | |
| M14-GL | Existing | Inside AOR | | | | | | | |
| M15-GU | Existing | Inside AOR | | | | | | | |
| M-16 GU(R) | Existing | Inside AOR | | | | | | | |
| M17-GL | Existing | Inside AOR | | | | | | | |
| M18-GU | Existing | Inside AOR | | | | | | | |
| M19-LBF | Existing | Inside AOR | | | | | | | |
| M20-O(R) | Existing | Inside AOR | | | | | | | |
| M21-UBF | Existing | Inside AOR | | | | | | | |
| M22-O | Existing | Inside AOR | | | | | | | |
| M23-UBF | Existing | Inside AOR | | | | | | | |
| M24-O | Existing | Inside AOR | | | | | | | |
| M25-UBF | Existing | Inside AOR | | | | | | | |
| M26-O | Existing | Inside AOR | | | | | | | |
| M27-LBF | Existing | Inside AOR | | | | | | | |
| M28-LBF | Existing | Inside AOR | | | | | | | |
| M29-UBF | Existing | Inside AOR | | | | | | | |
| M30-O | Existing | Inside AOR | | | | | | | |
| M31-LBF | Existing | Inside AOR | | | | | | | |
| M32-UBF(R) | Planned | Outside AOR | | | | | | | |
| M33-UBF(R) | Planned | Outside AOR | | | | | | | |
| M52-UBF | Existing | Inside AOR | | | | | | | |
| O19-GL | Existing | Inside AOR | | | | | | | |
| P19-1-O | Existing | Inside AOR | | | | | | | |
| O49-O | Existing | Inside AOR | | | | | | | |
| P49-O | Existing | Inside AOR | | | | | | | |

Notes:

AOC = Area of Review POC = Point of Compliance

| | Supplemer | ntal Monitoring Wells | |
|-----------|------------------|-----------------------|--------------------|
| Well Name | Existing/Planned | In/Out of AOR | Monitoring Purpose |
| M62-LBF | Planned | Inside AOR | Fault Monitoring |
| M63-LBF | Planned | Inside AOR | Fault Monitoring |
| M64-LBF | Planned | Inside AOR | Fault Monitoring |
| M65-LBF | Planned | Inside AOR | Fault Monitoring |
| M66-UBF | Planned | Inside AOR | USDW Monitoring |
| M67-LBF | Planned | Inside AOR | USDW Monitoring |
| M68-LBF | Planned | Inside AOR | USDW Monitoring |
| M69-UBF | Planned | Inside AOR | USDW Monitoring |
| M70-LBF | Planned | Inside AOR | USDW Monitoring |
| M71-UBF | Planned | Inside AOR | USDW Monitoring |
| M72-UBF | Planned | Inside AOR | ACD Test |
| M73-LBF | Planned | Inside AOR | ACD Test |
| M74-O | Planned | Inside AOR | Fault Monitoring |
| M75-UBF | Planned | Inside AOR | Fault Monitoring |

| | Supplemental Monitoring Wells | | | | | | | | | | |
|---|-------------------------------|------------|------------------|--|--|--|--|--|--|--|--|
| Well Name Existing/Planned In/Out of AOR Monitoring Purpose | | | | | | | | | | | |
| M76-O | Planned | Inside AOR | Fault Monitoring | | | | | | | | |
| M77-LBF | Planned | Inside AOR | Fault Monitoring | | | | | | | | |
| Notes: AOC = Area of Re | view | | - | | | | | | | | |

POC = Point of Compliance

Five of the POC wells are located outside of the Area of Review, which were sited specifically to monitor upgradient groundwater conditions to monitoring conditions down gradient of the pond complexes. The location of each POC and supplemental monitoring well is shown on Figure A-17 (attached).

Request 2:

The USEPA requested that Florence Copper add the future wells from the two planned supplemental monitoring clusters on the east side of the ISCR wellfield to the monitoring Tables included in Exhibit D-7 of Attachment D of the Application.

Response 2:

The future supplemental monitoring wells planned for installation on the east side of the in-situ copper recovery (ISCR) wellfield have been added to Tables 13.1 and 14.1. The planned supplemental monitoring wells have been assigned the names M78-UBF, M79-LBF, M80-O, M81-UBF, M82-LBF, and M83-O. As noted in our January 21, 2021 submittal, these wells will be installed prior to year nine of ISCR operations. The revised monitoring tables 13.1 and 14.1 are attached.

Request 3:

The USEPA requested a narrative explanation of the use of the well triplets to demonstrate the 1-foot drawdown (gradient) requirement to be demonstrated at the edge of the ISCR wellfield.

Response 3:

Florence Copper has proposed to demonstrate that 1 foot of drawdown has been achieved at the edge of the ISCR wellfield by making a comparison of the pumping water level at the edge of the wellfield to the water level in the observation well. The basic demonstration will include comparison of the water levels at an ISCR recovery well and the observation well at the edge of the wellfield on a daily basis. This is consistent with the drawdown demonstration made during operation of the PTF wellfield on a daily basis.

The ISCR wellfield will include perimeter wells located at the edge of the wellfield to augment hydraulic control. The perimeter wells are a second row of recovery wells located at the edge of the wellfield. As the wellfield expands, there will be locations at interior and exterior corners of the wellfield where hydraulic control wells may be closer to the observation wells than the ISCR recovery wells. Consequently, Florence Copper would like to maintain the flexibility to make the 1-foot drawdown demonstration between an observation and permitter well at those locations.

In an instance where the hydraulic conductivity is high, or in areas (like interior corners) where multiple recovery and perimeter wells bracket observation wells, the water level in the observation well may be drawn down to the point where the cone of depression has extended further from the wellfield. In these instances, Florence Copper will include the water level at the nearest POC well to demonstrate that the water level has been drawn down at least 1 foot below the ambient water level. This comparison will rely on the POC water level as a zero-change location for the purpose of drawdown comparison.

The triplet comparison includes one pumping well (either recovery or perimeter), one observation well, and the nearest POC well. The triplet comparison may be stated in the following terms:

- 1. Compare pumping water level at pumping well (ISCR recovery or perimeter) to the water level at the observation well to demonstrate 1 foot of drawdown.
- 2. If 1 foot of drawdown is not observed between pumping and observation well, compare pumping water level and observation well water level to POC water level to demonstrate 1 foot of drawdown below ambient regional water level.

To achieve this demonstration, daily water levels will be recorded at each recovery well, perimeter well, observation well, and POC well used in the demonstration.

Request 4:

The USEPA requested calcification regarding the planned method for calculating AL and AQL values for new and existing monitoring and POC wells.

Response 4:

The method for calculating Alert Level (AL) and Aquifer Quality Limit (AQL) values is defined in Aquifer Protection Permit (APP) No. P-101704 issued in December 2020. The method defined in the APP was developed by the Arizona Department of Environmental Quality (ADEQ) and is consistently applied in permits throughout Arizona. Florence Copper defers to the AL and AQL development method stated in Sections 2.5.3.3 and 2.5.3.4 of the APP. The language from these sections is provided below for the reviewer's convenience.

2.5.3.3. Alert Levels (ALs) for Point of Compliance Wells

ALs shall be calculated for all contaminants with an established numeric AWQS for any new or replacement POC wells, unless otherwise specified in this permit.

The permittee shall submit the ambient groundwater data in tabulated form to the Groundwater Protection Value Stream for review. Copies of all laboratory analytical reports, field notes, and the Quality Assurance/Quality Control (QA/QC) procedures used in collection and analyses of the samples for all parameters listed in Section 4.2, Table 13: QUARTERLY GROUNDWATER COMPLIANCE MONITORING and Table 14: ANNUAL GROUNDWATER MONITORING to be established for each POC well, shall be submitted to the Groundwater Protection Value Stream. The permittee may submit a report with the calculations for each AL and AQL included in the permit for review and approval by ADEQ, or the permittee may defer calculation of the ALs and AQLs by the Groundwater Protection Value Stream. The ALs shall be established and

calculated following acceptable statistical guidance such as the *USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance* (EPA 530-R-09-007)

The following criteria shall be met in establishing ALs in the permit:

- 1. The AL shall be calculated for a parameter using the analyses from a minimum of8 sampling events.
- 2. Any data where the laboratory Practical Quantitation Limit (PQL) exceeds 80% of the AWQS shall not be included in the AL calculation.
- 3. If a parameter is below the detection limit, the permittee must report the value as "less than" the numeric value for the PQL or detection limit for the parameter, not just as "non-detect". For those parameters, the permittee shall use a value of one-half the reported detection limit for the AL calculation.
- 4. If the analytical results from more than 50% of the samples for a specific parameter are non-detect, then the AL shall be set at 80% of the AWOS.
- 5. If the calculated AL for a specific constituent and well is less than 80% of the AWQS, the AL shall be set at 80% of the AWQS for that constituent in that well.

2.5.3.4. Aquifer Quality Limits for POC Wells

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For each of the monitored analytes for which a numeric AWQS has been adopted, the AQL shall be established as follows:

- 1. If the calculated AL is less than the AWQS, then the AQL shall be set equal to the AWQS.
- 2. If the calculated AL is greater than the AWQS, then the AQL shall be set equal to the calculated AL value, and no AL shall be set for that constituent at that monitoring point.

Please contact me at 520-316-3710 if you require any additional information.

Sincerely,

Florence Copper Inc.

Brent Berg

General Manager

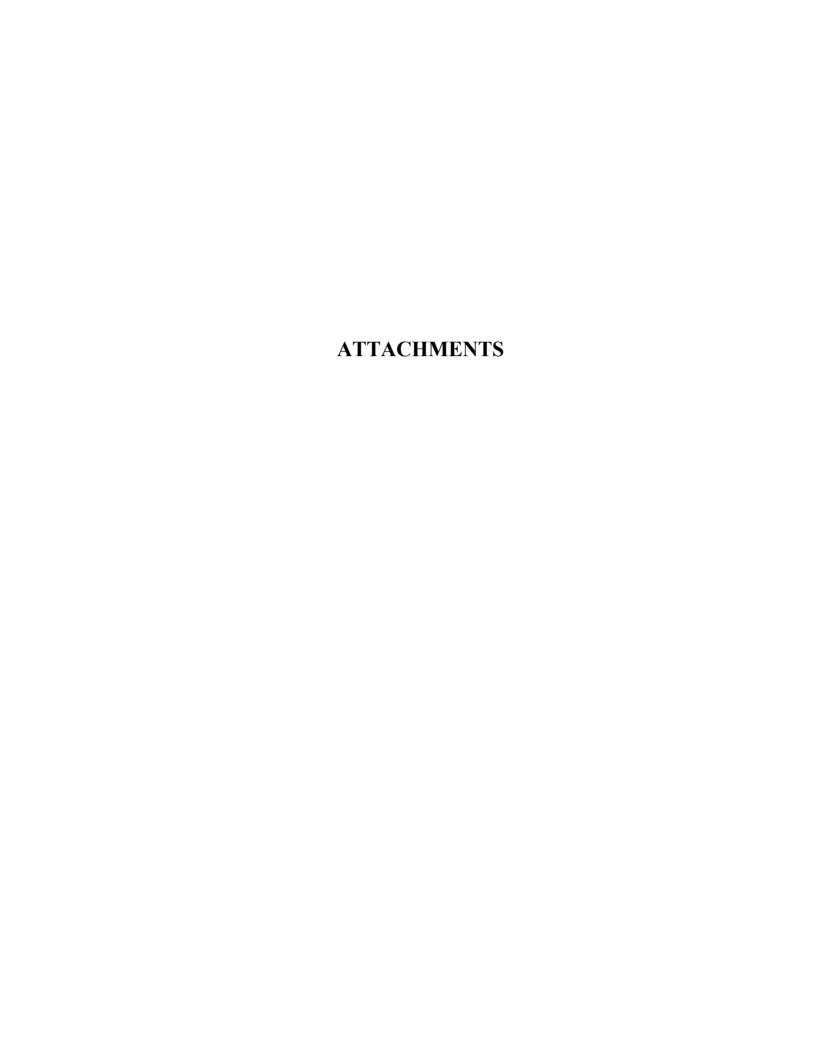
cc: Maribeth Greenslade, Arizona Department of Environmental Quality

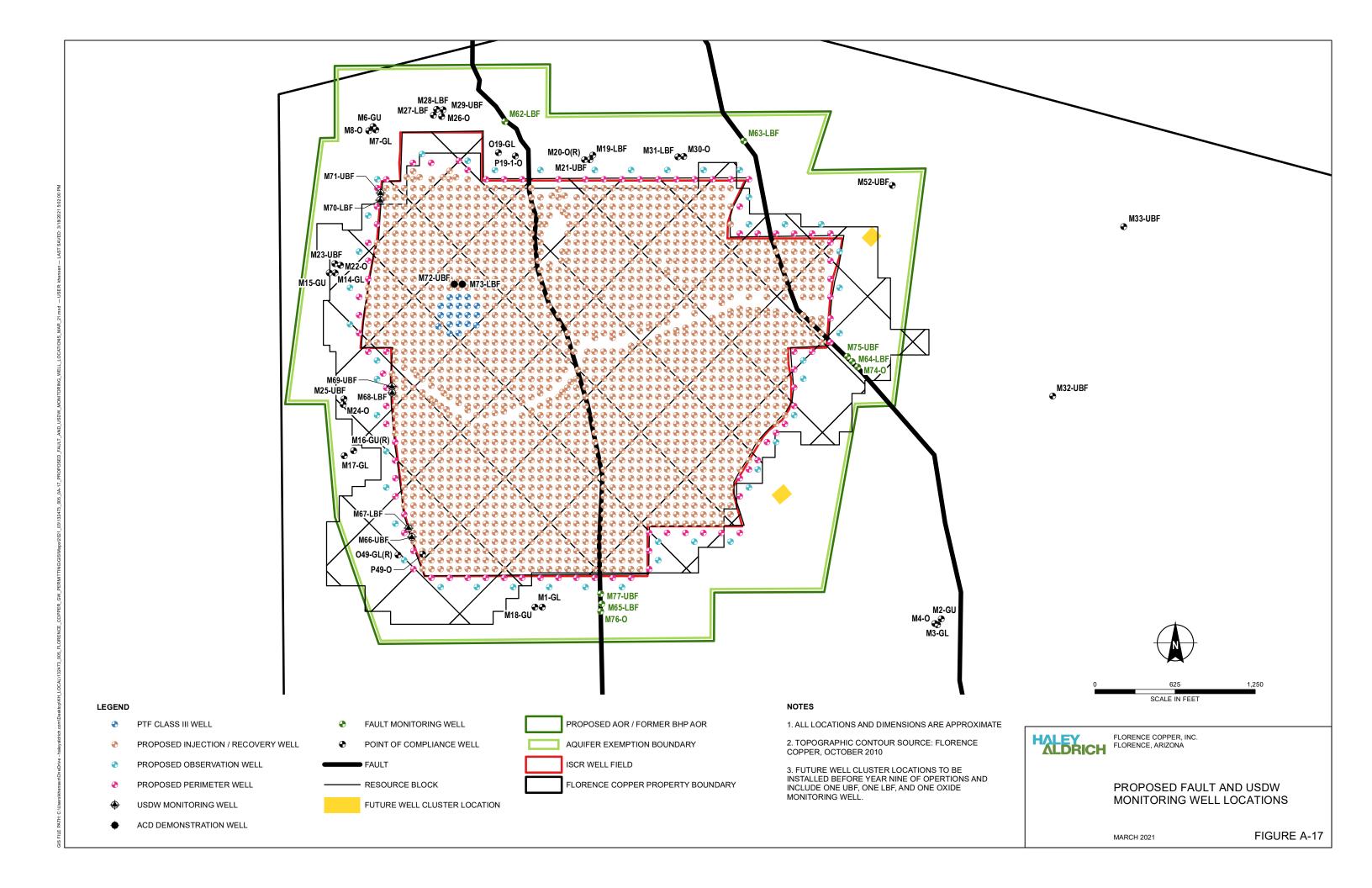
Enclosures:

Figure A-17: Proposed Fault and USDW Monitoring Well Locations

Table 13.1: Quarterly Groundwater Compliance Monitoring at Supplemental Monitoring Wells

Table 14.1: Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells





| able 13.1. Quarte | rly Groundwate | r Compliance M | onitoring at Supp | lemental Monito | ring Wells | | |
|--|---|--|---|--|---|---|---|
| M66- | UBF | M67 | -LBF | M68 | -LBF | | -UBF nitoring Well) |
| AQL | AL | AQL | AL | AQL | AL | AQL | AL (mg/L) |
| | | | | | | | TBD |
| | | | | | | | TBD |
| TBD | TDD | IDD | TDD | IDD | TDD | TDD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
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| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| 3 | | | • | | • | | • |
| | | | | | | | -LBF stration Well) |
| <u> </u> | , | | | ` | | ` | AL |
| ` | | - | | ~ | | - | (mg/L) |
| | | | | | | | TBD |
| | | | | | | | TBD |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
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| _ | | | | | | | -LBF |
| , | 0 / | , | | ` | | , | |
| ` | | _ | | ~ | | - | AL |
| | | | | | | | (mg/L) |
| | | | | | | | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TDD | TDD | TDD | TDD | TDD | TDD | TDD | TBD |
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| TBD | TBB | TDD | TDD | IBB | TDD | TDD | TBB |
| - | - | | | | - | | 6-O |
| ` | , | ` | | , | | | |
| - | | _ | | _ | | _ | AL |
| | | | | | | | (mg/L) |
| TRD | | | TBD | TBD | TBD | TBD | TBD TBD |
| TDD | TDD | | | | ממו | תמז | IBD |
| TBD | TBD | TBD | IBD | IBB | | | |
| 1 | | | | 1 | TRD | TRD | TRD |
| TBD | TBD | TBD | TBD | TBD | TBD TBD | TBD TBD | TBD TBD |
| TBD TBD | TBD TBD | TBD TBD | TBD TBD | TBD TBD | TBD | TBD | TBD |
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| TBD TBD TBD TBD TBD TBD TBD TBD TBD TGD TGD TGD TGD TGD TGD TGD TGD TGD TG | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD TBD TBD TBD TBD TBD TBD TBD TCBD TBD TCBD TC | TBD | TBD TBD TBD TBD TBD TBD TBD TBD TCBD TBD TCBD TC | TBD | TBD | TBD |
| TBD TBD TBD TBD TBD TBD TBD TBD TCBD TBD TCBD TC | TBD | TBD TBD TBD TBD TBD TBD TBD TBD TCBD TCB | TBD | TBD TBD TBD TBD TBD TBD TBD TBD TCBD TCB | TBD | TBD TBD TBD TBD TBD TBD TBD TCFUTURE N Clu AQL | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| | M66- (USDW Mon AQL (mg/L) TBD | M66-UBF (USDW Monitoring Well) | M66-UBF | M66-UBF | M66-UBF | (USDW Monitoring Well) (Mog/L) AL AQL AL QQL AL (mg/L) (mg/L) | M66-LBF (USDW Monitoring Well) |

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| Т | able 13.1. Quarte | erly Groundwate | r Compliance M | onitoring at Supp | olemental Monito | ring Wells | |
|--|-------------------|---|----------------|-------------------|------------------|------------|--|
| Parameter | (FUTURE N | M82-LBF M83-O UTURE NE Monitoring (FUTURE NE Monitoring Cluster) Cluster) | | | | | |
| | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| Depth to Groundwater (ft. bgs) | TBD | TBD | TBD | TBD | | | |
| Water Level Elevation (ft amsl) | TBD | TBD | TBD | TBD | | | |
| Indicator Parameters: | | | | | | | |
| pH (field) (S.U.) | TBD | TBD | TBD | TBD | | | |
| Specific Conductance (field) (mhos/cm) | TBD | TBD | TBD | TBD | | | |
| Temperature (field) | TBD | TBD | TBD | TBD | | | |
| Fluoride | TBD | TBD | TBD | TBD | | | |
| Magnesium | TBD | TBD | TBD | TBD | | | |
| Sulfate | TBD | TBD | TBD | TBD | | | |
| Total dissolved solids | TBD | TBD | TBD | TBD | | | |

Notes:

ACD = annular conductivity device

 $AL = Alert\ Level$

AL = Alert Level

AQL = Aquifer Quality Limit

fl. amsl = feet above mean sea level

fl. bgs = feet below ground surface

mg/L = milligrams per liter

 $mhos/cm = microsiemens\ per\ centimeter$

S.U. = standard unit
TBD = To Be Determined
USDW = Underground Source of Drinking Water

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|-----------------------------------|--------|-------------------|--------|-----------------------------------|--------|--|--|--|
| Parameter ¹ | M66-UBF (USDW Monitoring Well) | | M67- (USDW Mon | | M68-LBF (USDW Monitoring Well) | | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen 3 | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Γhallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) ⁵ | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) 6 | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Γotal Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|--------------------|--------|--------|------------------------|-----------------------------------|--------|--|--|--|
| Parameter | M69- (USDW Moni | | | -LBF nitoring Well) | M71-UBF (USDW Monitoring Well) | | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/l) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Γhallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| | | | | | | | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|----------------------------------|--------|--------|------------------------|------------------------------------|--------|--|--|--|
| Parameter | M72-UBF (ACD Demonstration Well) | | | -LBF stration Well) | M62-LBF (Fault Monitoring Well) | | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Thallium Thallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| otal Aylene | IBD | IBD | IBD | IBD | IBD | 11 | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|----------------------|--------|---------------------|--------|------------------------------------|--------|--|--|--|
| Parameter | M63- (Fault Monit | | M64- (Fault Moni | | M65-LBF (Fault Monitoring Well) | | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Thallium Thallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Fotal Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|---------------------|--------|--------|---------------------|-----------------------|--------|--|--|--|
| Parameter | M75- (Fault Moni | - | | 4-O toring Well) | M77-l (Fault Monit | | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Thallium Thallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Fotal Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|--------------------|--------|-----------------------|--------|--|--------|--|--|--|
| Parameter | M70 (Fault Moni | | M78- (FUTURE SE Mo | | M79-LBF (FUTURE SE Monitoring Cluster) | | | | |
| | ` | , | ` | , | ` | , , | | | |
| | AQL | AL | AQL | AL | AQL | AL | | | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Thallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | | |
|---|---|--------|---|--------|---|--------|--------|----|-----|
| Parameter | M80-O (FUTURE SE Monitoring Cluster) | | M81-UBF (FUTURE NE Monitoring Cluster) | | M82-LBF (FUTURE NE Monitoring Cluster) | | | | |
| | | | | | | | AQL | AL | AQL |
| | | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | | |
| pH (lab) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Bicarbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Calcium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Carbonate | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chloride | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nitrate as nitrogen | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Potassium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Sodium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cation/anion balance | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Aluminum | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Antimony | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Arsenic | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Barium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Beryllium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cadmium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Chromium (total) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Cobalt | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Copper | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Iron | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Lead | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Manganese | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Mercury | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Nickel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Selenium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Thallium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Zinc | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Gross Alpha | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Uranium | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Benzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Ethylbenzene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Toluene | TBD | TBD | TBD | TBD | TBD | TBD | | | |
| Total Xylene | TBD | TBD | TBD | TBD | TBD | TBD | | | |

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| Table 14.1. Annual Groundwater Compliance Monitoring at Supplemental Monitoring Wells | | | | | | | | |
|---|---|--------|--|--|---|--|--|--|
| Parameter | M83-O (FUTURE NE Monitoring Cluster) | | | | | | | |
| | AQL | AL | | | | | | |
| | (mg/L) | (mg/L) | | | | | | |
| pH (lab) | TBD | TBD | | | | | | |
| Bicarbonate | TBD | TBD | | | | | | |
| Calcium | TBD | TBD | | | | | | |
| Carbonate | TBD | TBD | | | | | | |
| Chloride | TBD | TBD | | | | | | |
| Nitrate as nitrogen | TBD | TBD | | | | | | |
| Potassium | TBD | TBD | | | | | | |
| Sodium | TBD | TBD | | | | | | |
| Cation/anion balance | TBD | TBD | | | | | | |
| Aluminum | TBD | TBD | | | | | | |
| Antimony | TBD | TBD | | | | | | |
| Arsenic | TBD | TBD | | | | | | |
| Barium | TBD | TBD | | | | | | |
| Beryllium | TBD | TBD | | | | | | |
| Cadmium | TBD | TBD | | | | | | |
| Chromium (total) | TBD | TBD | | | | | | |
| Cobalt | TBD | TBD | | | | | | |
| Copper | TBD | TBD | | | | | | |
| Iron | TBD | TBD | | | | | | |
| Lead | TBD | TBD | | | | | | |
| Manganese | TBD | TBD | | | | | | |
| Mercury | TBD | TBD | | | | | | |
| Nickel | TBD | TBD | | | | | | |
| Selenium | TBD | TBD | | | | | | |
| Thallium | TBD | TBD | | | | | | |
| Zinc | TBD | TBD | | | | | | |
| Gross Alpha | TBD | TBD | | | | | | |
| Adjusted Gross Alpha (pCi/L) | TBD | TBD | | | | | | |
| Radium 226 + 228 (pCi/L) | TBD | TBD | | | | | | |
| Total Uranium Isotopes (pCi/L) | TBD | TBD | | | | | | |
| Total Uranium | TBD | TBD | | | | | | |
| Total petroleum hydrocarbons- diesel | TBD | TBD | | | | | | |
| Benzene | TBD | TBD | | | 1 | | | |
| Ethylbenzene | TBD | TBD | | | | | | |
| Toluene | TBD | TBD | | | | | | |
| Total Xylene | TBD | TBD | | | | | | |

Notes:

 $ACD = annular\ connectivity\ device$

 $AL = alert\ level$

AQL = Aquifer Quality Limit

 $mg/L = milligrams \ per \ liter$ pCi/L = picocuries per liter

TBD = To Be Determined

 $\mathit{USDW} = \mathit{Underground}\ \mathit{Source}\ \mathit{of}\ \mathit{Drinking}\ \mathit{Water}$

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Metals must be analyzed as dissolved metals.

 $^{^{2}}$ Monitor = Monitoring required, but no AQL or AL will be established in the permit.

³ Nitrate will be used only for calculation of cation/anion balance because of regional nitrate pollution and none used in processes.

⁴ NE = Not Established

⁵ If the gross alpha particle activity is greater than the AL or AQL, then calculate the adjusted gross alpha particle activity. The adjusted gross alpha particle activity is the gross alpha particle activity, including radium 226, and any other alpha emitters, if present in the water sample, minus radon and total uranium (the sum of uranium 238, uranium 235 and uranium 236. isotopes). The gross alpha analytical procedure (evaporation technique: EPA Method 900.0) drives off radon gas in the water samples. Therefore, the Adjusted Gross Alpha should be calculated using the following formula: (Laboratory Reported Gross Alpha MINUS Sum of the Uranium Isotopes).

6 Uranium Isotope activity results must be used for calculating Adjusted Gross Alpha.